2117

INSTALLATION AND OPERATING INSTRUCTIONS

FOR

TYPE 1261-A POWER SUPPLY

Form 649-A

GENERAL RADIO COMPANY
CAMBRIDGE 39, MASSACHUSETTS

New York 6 Los Angeles 38 Chicago 5

INSTALLATION AND OPERATING INSTRUCTIONS

for

TYPE 1261-A POWER SUPPLY

When the Type 1261-A Power Supply is used with instruments manufactured before the power supply became available, it is necessary to make certain changes in the wiring of the battery plug and, where necessary, to drill a hole in the cabinet to give access to the power supply cord which connects to the power line.

1. TYPE 759-A SOUND-LEVEL METER (ALL MODELS)

1.1 Cut hole in bottom of cabinet as indicated on attached drawing, Figure 1.1. This drawing is full size and may be used as a template for cutting the hole. A dress ring to fit the hole is included in the kit of parts.

1.2 Installation: Remove large battery clamp from battery cable of Type 759-A. Connect battery plug to battery cable as follows (See Figure 1.2):

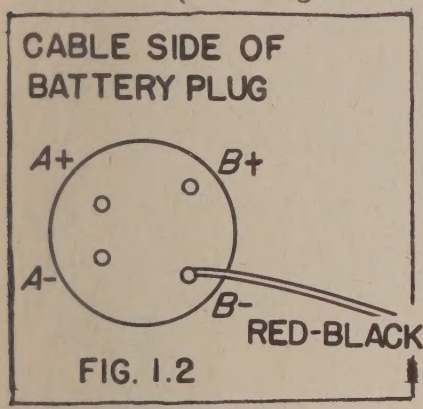


FIG. 1.2

(a) Connect slate lead to B+ prong of plug.

(b) Connect black lead and black-yellow lead to A- prong of plug.

(c) Connect red lead and red-yellow lead to A+ prong of plug.

(d) Connect red-black lead, furnished in kit of parts, between B- terminal of battery plug and terminal No. 1 of socket for T-6 in Type 759-A.

1.3 The power supply unit will fit loosely in the battery compartment. If the instrument is to be used in the field rather than in the laboratory, it is desirable to pad the sides and end of the battery compartment with wooden blocks or sponge rubber to hold the power supply firmly in place.

1.4 Connection to the a-c line is made through the hole in the bottom of the cabinet by means of a special line cord which includes the ON-OFF switch. The panel ON-OFF switch should be left in ON position when used with the Type 1261-A Power Supply.

1.5 Selector plug 1261-P1 should be inserted in the selector socket.

1.6 Follow instructions on power-supply case.

1.7 Before making measurements, check and adjust the calibration of the sound-level meter as outlined in the Operating Instructions.

Note: When the Type 759-A Sound-Level Meter is used with the Type 1261-A Power Supply, full sensitivity of the instrument cannot be used. Attenuator settings below 50 db on B and C weighting networks and below 40 db on the A weighting network are not recommended.

2. TYPE 759-B SOUND-LEVEL METER, SERIAL NUMBERS BELOW 1458.

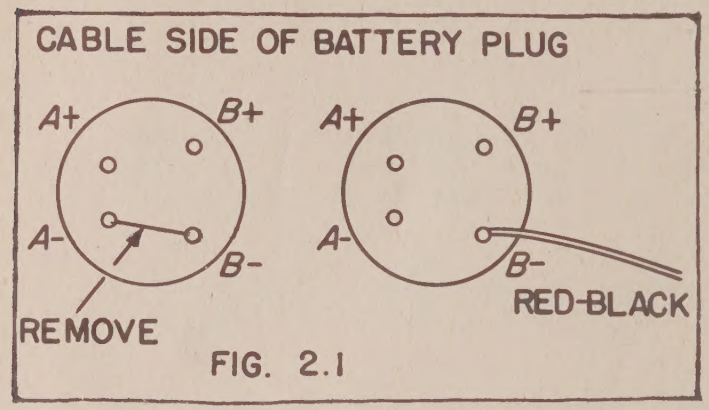


FIG. 2.1

2.1 Remove jumper between A- and B- terminals (shown in A above) and connect red-black lead from B- terminal on battery plug to terminal No. 2 of socket for V-3 as indicated in B above.

2.2 This is the only change necessary to make the Type 759-B Sound-Level Meters of early manufacture suitable for operation with the Type 1261-A Power Supply. There are a few sound-level meters with serial numbers below 1458 which already have this change. This can quickly be determined by observing the wiring of the battery plug.

2.3 This change does not affect the operation of the Type 759-B with batteries. Therefore, once the change is made, the sound-level meter can be operated with either the power supply or batteries as desired.

2.4 Installation and operating instructions on power-supply case now apply.

2.5 Use selector plug 1261-P2.

3. TYPE 720-A HETERODYNE FREQUENCY METER, SERIAL NUMBERS BELOW 411.

3.1 Cut hole in bottom of cabinet as indicated on attached drawing, Figure 3.1. This drawing may be used as a template for cutting the hole. Dress ring to fit hole is included in the kit of parts. Sponge rubber pieces 1/8" thick are also provided to replace the present pieces which are 1/4" thick, thus making it possible to clamp the power supply into the battery compartment with the cast-aluminum battery clamp.

3.2 Mount the two grounding springs in sides of cabinet as illustrated in drawing of Figure 3.2.

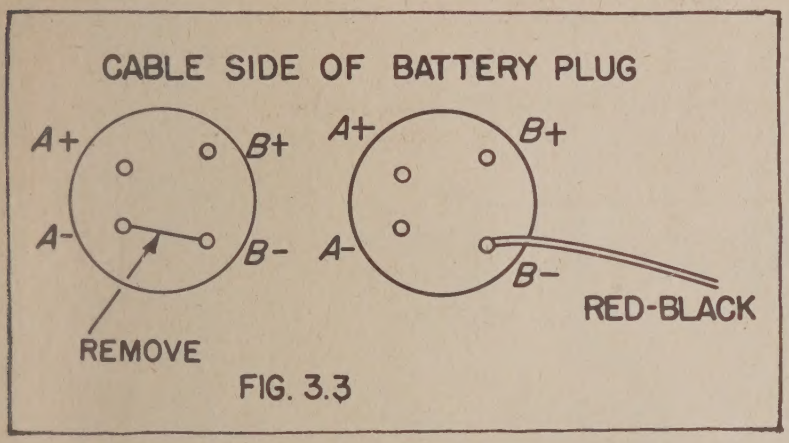


FIG. 3.3

3.3 Remove jumper between A- and B- terminals of battery plug (indicated in Figure 3.3 above). Add red-black lead connecting B- terminal of battery plug to anchor terminal, in the Type 720-A, which is located just above the ON-OFF switch and is connected to switch with red lead.

3.4 The above changes do not affect battery operation of the Type 720-A Heterodyne-Frequency Meter in any way.

3.5 Use selector plug Type 1261-P3.

3.6 Follow instructions on power-supply case.

4. GENERAL USE WITH SELECTOR PLUG TYPE 1261-P5

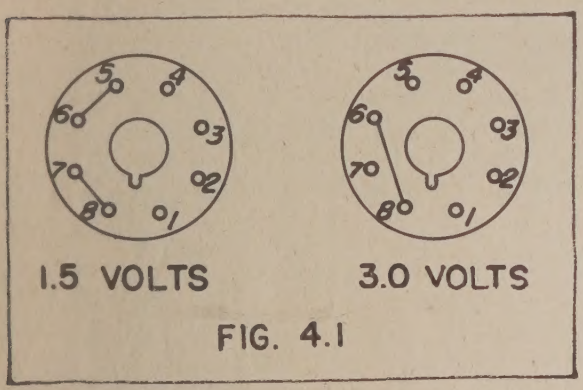


FIG. 4.1

4.1 Selector plug wiring for 1.5- and 3.0-volt filament output is shown in Figure 4.1. As noted in output specifications, normal filament current of 300 ma is required to operate the relay which connects the floating flashlight batteries across the output of the filament supply. If filament current drain of the instrument is less than 300 ma, a bleeder resistor should be connected between terminals 4 and 7 of the selector plug to make the total filament current equal 300 ma. In the same manner, bleeder resistors can be connected between terminals 3 and 7 of the selector plug to hold the plate-supply voltage down to 90 volts if the normal plate current of the instrument to be supplied is below approximately 5 ma.

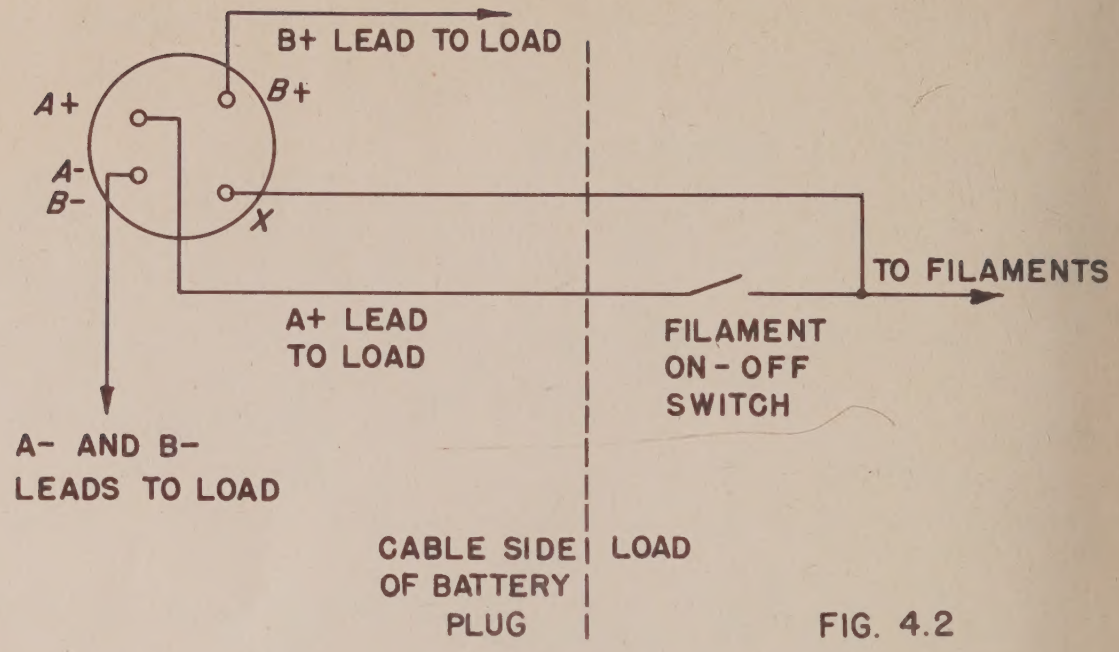
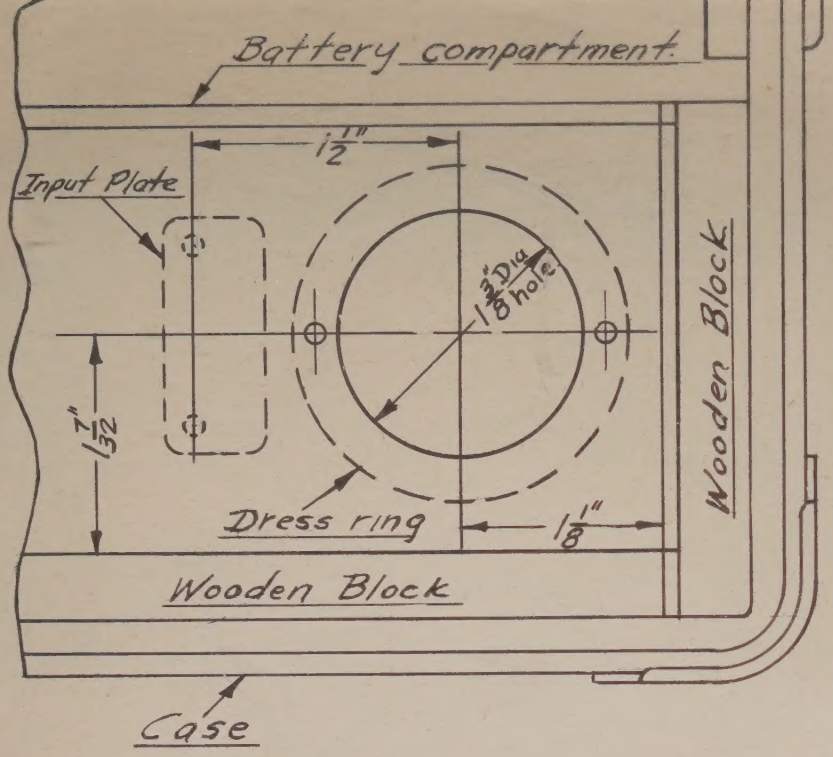


FIG. 4.2

4.2 The battery plug should be wired as shown in Figure 4.2 when for general use to replace batteries.

4.3 It will be noted that the normal B- terminal of the battery plug is labeled X and is connected to A+ on the load side of the ON-OFF switch. This connection is made so that the flashlight cells which float across the output of the filament supply are protected at all times. B- connection to the instrument is usually ground as is the A- connection so that the two are tied together and to the A- terminal on the battery plug. This puts B- of the battery at A+ potential when the same plug is again used with a battery, but this causes no difficulty.



NOTES:

Locate and drill 1 3/8" dia. hole as shown

Fasten Dress ring with #3 round head wood screw 3/16" long to bottom of case.

Figure 1.1

THIRD ANGLE PROJECTION									SCALE FULL
TOLERANCES ON DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED FRACTIONAL ±.010 DECIMAL ±.002	NO.	CHANGE	APP.	DATE	NO.	CHANGE	APP.	DATE	759-A-SOUND LEVEL METER GENERAL RADIO CO. CAMBRIDGE, MASS. DATE 8-12-40 DR. H.G.S. TR. CH. DWG. NO. 759-

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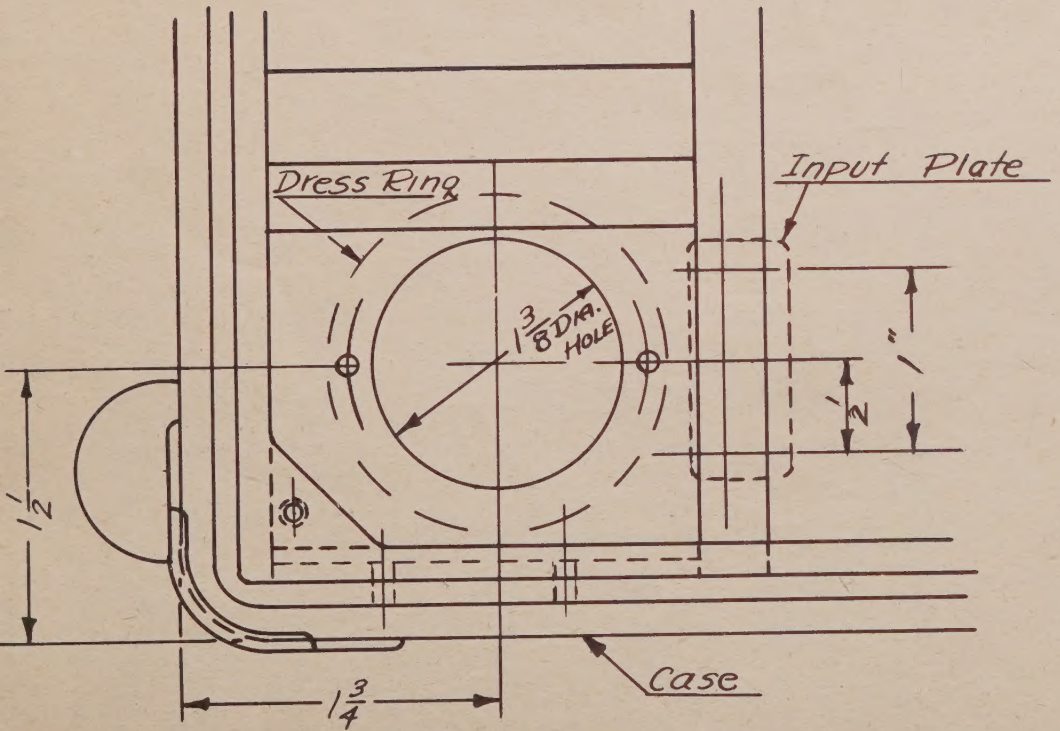

Figure 3.1

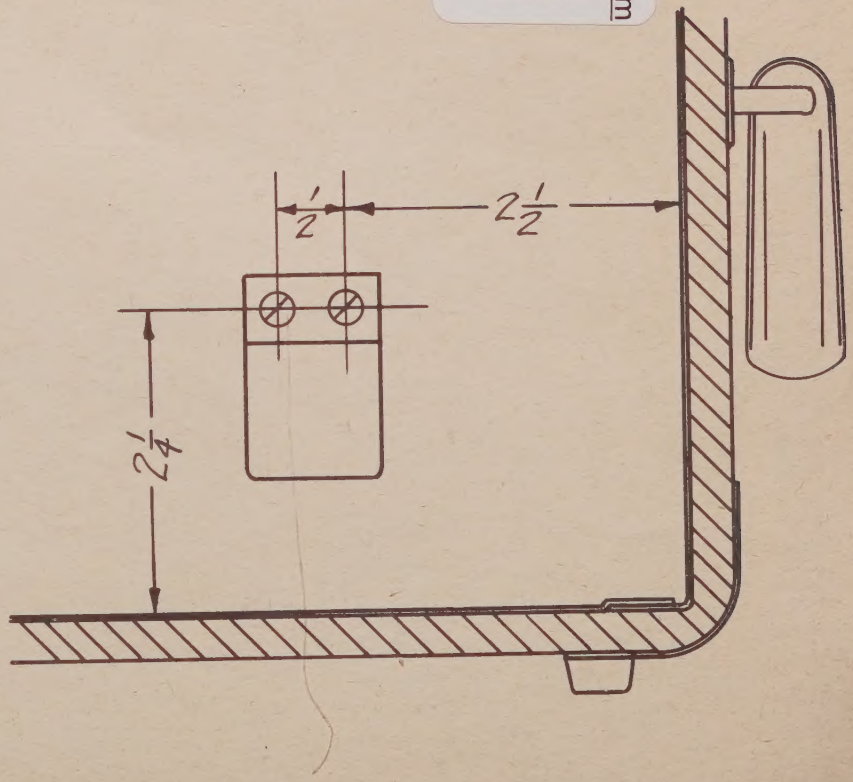

Figure 3.2